

OSCILLATOR

Oregon Tualatin Valley Amateur Radio Club (Est. 1978)

July 1997

THE PREZ SAYS

By Betty, N7REX

Thank you, thank you, thank you. Sea★Pac was a success despite its competition from Father's Day and The Rose Festival Air Show. It was a success because of all the hours put in by committee members for months and months before the event and all the hours put in by club members at the event. Many of the commercial exhibitors told me that Sea★Pac was better attended than the other conventions this year. They also shared that Sea★Pac is one of their favorite conventions. Some were even kind enough to say it was because of me (who said their weren't any perks to being in charge of exhibitor's hospitality). It is because of the good work all of you do that they request coming to our convention.

In addition to the exhibitors, we got some positive praise from one of our honored guest. The following quote was forwarded to me from Steve Mendelson who said, "...It was a wonderful convention and let me add my congratulations on your organization's skills." High praise indeed from the first vice-president of ARRL. A special thank you goes out to Randy Stimson KZ7T, Jim Schaeffer KB7ADH, Al Berg WB7SIC, and Brad Beach N7NVC who are the driving force behind our success.

In honor of all your assistance with the important work of putting on the convention, all those who wear their commemorative pins to the July meeting will receive a couple tickets. I'm not sure, but perhaps there will be an opportunity for those who couldn't make it to Sea★Pac this year to purchase a pin (while supplies last).

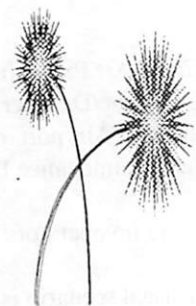
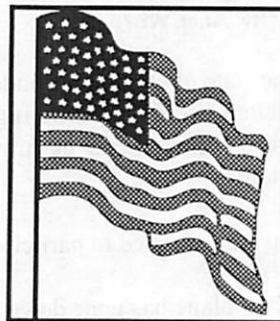
One of the biggest travelers weekend is coming up the third weekend of July. It is our annual BBQ at Skamokawa. Plan to come for the weekend or just Saturday and you'll enjoy great food, great company and great scenery (I wish

I could promise great weather as well). This month's picture wall will be of camp-outs (hopefully some people have pictures of us doing something besides eating - Al has plenty of those).

Hope to see you at the July meeting. 73,
Betty



ENJOY YOUR FOURTH OF JULY??



NEXT MEETING Wednesday, July 9TH

Program will be a detailed discussion of the upcoming "smart" battery charger build project. Also some interesting reports on SEAPAC and Field Day. See you there.

OTVARC



W7OTV 146.90 (RPTR)

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UPDATE ON OUR BATTERY CHARGER BUILD PROJECT

By Alan, KB7POR

The August date for the battery charger project is rapidly approaching. There is one little surprise in how fast the date is approaching. *It is one week earlier than you expect!* Due to a conflict with a Cycle Oregon training session, the date for the charger construction party has been changed to Saturday, August 9, 1997.

The location is the same – 30 Del Prado in Lake Oswego and the time is still 10:00AM. Lunch will be provided to sustain the energy level for the strenuous activity of installing and soldering all those big components.

If you are not yet on the list to buy one of the charger kits, please contact Alan Chinnock at 636-2237. The cost will be \$55.00 (could be less with more orders). You do not have to attend the building session to buy the kit. You do have to buy a kit if you want to build one.

The article in the June Oscillator has more information on what the kit is all about.



CIVIL AIR PATROL EXERCISE MAY INCLUDE HAM INVOLVEMENT

By Janet, WB7FJJ

Civil Air Patrol in the state of Oregon is conducting a Search & Rescue/Disaster Relief (SAR/DR) training exercise at the Hillsboro Air port during the weekend of July 11-12-13 at the Eagle Maintenance Building.

Ham radio operators may be requested to participate.

The usual scenario is that a plane has gone down somewhere in the area, and C.A.P. has been called in to look for it. The disaster relief mission may be a flood, earthquake, or other disaster.

If you'd like to observe and maybe take a part in some of the "play", come by the airport with a handheld, or mobile rig and observe and maybe be deployed to observe damage, or report other information.

For more information, contact Civil Air Patrol Major Janet Bell at 642-0369 days, or 648-4147 evenings.

Yesterday is History Tomorrow is a Mystery
Today is a gift, that's why it's called "The Present."

ANOTHER EXCITING FIFTH WEDNESDAY CONTEST THIS MONTH

By Alan, KB7POR

Yep, it is upon us once again! July has five Wednesdays – this means that we will be out there tearing up the ether on 147.42 MHz for an hour in the name of contesting. See the full rules and Contest Summary Sheet in the back pages of the Oscillator.

The contest is initiated by OTVARC, but is not limited to just our members. Encourage all your friends to join in. This contest gives those public service and emergency service people an idea of what can be accomplished in the Portland metro area on FM simplex. The more the merrier and the more we learn about local propagation.



FCC ISSUES NEW, UPDATED FORM 610

From W5YI Newsletter

The FCC has issued a new (March 1997) updated version of the *Application Form 610 for Amateur Operator/Station License*. Unlike previous forms, this Form 610 does not carry an expiration date. There are actually very few changes. New Item 3A of the new form does ask for your Internet address – if you have one.

In addition, applicants no longer need to answer the (old Item No. 6 question) "Would an FCC grant of your request be an action that may have a significant environmental effect?" Instead, the FCC now includes the following statement above your signature block: "I certify that the construction of this station would NOT be an action which is likely to have a significant environmental effect (see the Commission's Rules 47 DFR, Sections 1.1301 - 1.1319 and Section 97.13(a))."

The instruction sheet also refers to new antenna height rules which took effect July 1, 1996: "Amateurs must use FCC Form 854 whenever proposed construction or alteration to existing antenna structures meets FCC notification criteria. Generally, these are antenna structures that are higher than 60.96 meters (200 Feet) above ground level or interfere with the flight path of a nearby airport. Additionally, owners of existing antenna structures which previously required FAA notification and were cleared by the FCC prior to July 1, 1996, must register before June 30, 1998 in accordance with filing windows prescribed by state. As these structures are registered, owners are required to provide licensees with a copy of FCC Form 854R and are required to display the Registration Number near the base of the antenna structure. The revised FCC form 854 may be obtained by calling 1-800-418-FORM (3676)."

It is not necessary that you use the new March 1997 version of the FCC Form 610, however. The FCC will also accept the November 1993 March 1995 version until further notice.



VOLUNTEER OPPORTUNITIES FOR 1997

By Chuck, KI7CL

If you can help on any of these events, please get in touch with the noted contact person.

- | | |
|--|-----------------------------|
| Summit to Surf (American Diabetes Ass.) | Sat Jul 26 |
| Betty Mickley N7REX | 642-1284 |
| MS 150 (Multiple Sclerosis Society) | Sat & Sun Aug 2-3 |
| Randy Stimpson KZ7T | 297-1175 |
| Pedal the Bridges | Sun Aug 10 |
| Randy Stimson KZ7T | 297-1175 |
| Cycle Oregon | Sun Sept 7 thru Sun Sept 14 |
| Randy Stimson KZ7T | 297-1175 |
| Walk for the Cure (Juvenile Diabetes Foundation) | Sun Sept 14 |
| Betty Mickley N7REX | 642-1284 |
| Amateur Radio Public Awareness Day | Sat Sept 20 |
| <i>We need your ideas, contact your board</i> | |
| Portland Marathon | Sun Sept 28 |
| Hugh Ellsworth KB7LJV | 653-1993 |
| Octoberfest (American Diabetes Ass.) | Sat Oct 4 |
| Betty Mickley N7REX | 642-1284 |
| Jamboree On The Air (Boy Scouts) | Sat- Sun Oct 18-19 |
| VOLUNTEER LEADER NEEDED | |
| Santa Claus Parade (Downtown merchants) | Fri Nov 28 |
| Jim Schaeffer KB7ADH | 245-2518 |

OTVARC IS AN EQUAL OPPORTUNITY CLUB
ALL VOLUNTEERS ARE APPRECIATED

MAY BOARD MEETING

By Secty, Dale, W7FBP

Abbreviated Minutes of the 26 May, 1997 Meeting

- Attendees were Jim Schaeffer, Hanford Van Ness, Dale LeBaron Will Sheffield, Al Berg, Stan Griffiths and Janet Bell.
- Jim reported on the June meeting program.
- Van reported on the expenses for the month: \$94.99 for newsletter expenses.

ter expenses.

4. Lengthy discussion on the purchase of amateur and electronics books purchased by OTVARC and donated to the Washington County libraries. It appears that the books donated last year have had very little use – check outs have been minimal in the different libraries. It appears that these types of books might see better use by students if put into the school libraries and technical classes. Further discussion and information gathering will continue before any more books are purchased.

5. New budget proposal was discussed and some further changes made. The board voted to accept the adjusted budget.

~<>~

AREA HAMFAIRS AND SWAPMEETS

By W7OTV

- | | |
|------------|---|
| July 18-20 | Glacier-Waterton Intl. Hamfest, MT |
| July 19 | Coos Bay Hamfest, North Bend, OR |
| Aug 2-3 | Spokane Hamfest, WA |
| Aug 9 | Tacoma Fleamarket, WA |
| Aug 10 | Ham Radio & Computer Hobbyists Swapmeet, Redmond, OR |
| Aug 16 | Ham Radio, Computer & Electronic Equipment Swapmeet, Longview, WA |
| Sep 27-28 | Walla Walla Hamfest, WA |
| Oct 25 | Mid Valley ARES, Rickreall, OR |
| Oct 25 | Bellingham Hamfest, Ferndale, WA |

~<>~

NOW YOU CAN HAVE THAT ELECTRIC HANDSHAKE YOU ALWAYS WANTED!

From W5YI

The *Personal Area Network (PAN)* computer is a computer device that fits in the pocket and transmits data through the human body! The electric current is 1,000 times weaker than the electricity caused by running a comb through your hair. It allows two PAN holders to trade programmed information such as business cards through a handshake.

The technology was developed at the MIT and is now being perfected by IBM. The possible applications are mind boggling. PAN could eliminate calling cards at pay phones, entering codes at ATM machines, replace plastic credit cards – health care workers could even retrieve a person's medical history simply by touching the person.

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CLUB LOANER PROGRAM HAS EQUIPEMENT AVAILABLE

By Editor

Stan, W7NI, reports that he has good, operable, HF equipment available for loan to new or upgraded amateurs who would like to try their hand at operating in the HF portion of the bands (3.5 MHz to 30 MHz).

The loan duration is variable and can be adjusted to meet the needs of the amateur desiring the equipment. Also, Stan will check the equipment out and give some equipment operating tips.

His phone number is listed on the back page of the newsletter – give him a call for information or to arrange a loan.



A FREE LOTTERY???

(IS THIS FOR REAL!)

From W5YI Newsletter

E-mail has accomplished another mind boggling feat..... The *E-Mail Lottery* is a free (advertiser supported) lottery and it is legal, says the operator, Gregory W. Harris, of Little Rock, Arkansas, an attorney.

Lottery tickets are e-mailed to registered players and winning numbers are posted to their website at:

<http://www.emailotto.com>

Players get about five lottery tickets a week. "Our gaming operations are legal because our players are not required to pay any fee or make any purchase in order to participate," says Mr. Harris. Cash prizes of \$100 to \$1 million are possible. (Ed. - yeah, but what is the probability of average person winning?)



JOIN THE "OTVARC FOR LUNCH BUNCH"

By Geno, KA7KBH

Hi all good food lovers! We had no lunch get together in June since it was a full month with SeaPac and Field Day

In July, our lunch bunch will be meeting on Saturday, July 26th at 1:30PM at the Wan-Q Chinese restaurant. It is located at 13535 NW Cornell Road, across from Sunset High School, in the Cedar Mill area, about 2 or 3 blocks west of Murray Road.

Everyone is welcome – no dress up is required (I think shoes and shirts are required by the restaurant though!). So come on down and enjoy lunch with the gang – the food is very good.



U.S. FLAG HISTORY AND ETIQUETTE

By W7OTV

Independence Day seems to be an appropriate time to reflect on the symbol of our great country.

The American flag should be hoisted briskly and lowered ceremoniously, displayed from dawn to dusk, or illuminated at night, and never allowed to touch the ground or floor. No other flag should hang above it.

Historical records show that the flag was not commonly saluted until 1898. Congress didn't approve the flag code – the rules for the care and disposal of flags – until 1942.

Incidents of flag desecration or burning are rare. Thirty seven burning incidents have been recorded in this decade. Even so, 49 states have passed resolutions asking Congress to support an amendment to ban desecration of the U.S. flag. Opponents of such an amendment see it as an infringement of free speech.

Some noteworthy historical events are:

1777: Congress establishes the stars and stripes as the American flag.

1814: Francis Scott Key writes "The Star Spangled Banner."

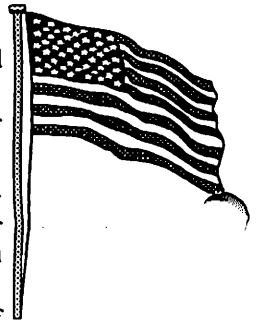
1895: June 14 established as Flag Day, which has been observed by presidential proclamation since 1949, but is a legal holiday only in Pennsylvania.

1968: A federal law imposes a maximum of one year in prison and a \$1,000 fine for publicly burning or desecrating the American flag.

1989-90: In two decisions, the Supreme Court rules that flag burning is protected under the free speech clause of the First Amendment.

1995: In June the House passes a proposed amendment to ban flag-burning, but in December it fails in the Senate by three votes.

(Source: World Book Encyclopedia)



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BADGES AND JACKETS READY FOR PICKUP

By Carl, WS7L

I'm still holding some of the Badges and Jackets that were ordered at past meetings. I will have them available at the July meeting for you to pick up. If you would like to have it prior to the meeting, give me a call at 629-5796, and we will work out some arrangements for you to pick it up.

For those of you who have not ordered yet, give me a call or see me at the July meeting. These are red nylon coach's jackets, with a large embroidered club logo on the back. They are available in sizes S through XXL, and are \$33.89 unlined, and \$36.25 lined. With name and call sign on the left front they are \$4.25 extra for a total of \$38.14 unlined, and \$40.50 lined.

Badges have the club logo with your name and call. I will have samples at the meeting.



METRO AREA PICNIC DETAILS FINALIZED

By Geno, KA7KBH

Mark your calendars for the *Metropolitan Amateurs' Picnic* on September 13th. Any and all amateurs and their families and friends are invited to this fun, informative, gathering. Hours are 11:00AM to 3:00PM at the Red Sunset Park, in Gresham.

FOOD: The organizers will provide hamburgers and hot dogs. Attendees are requested to bring their own beverage (no alcohol) and either a salad or a desert. Plates and utensils will be provided.

COST: The cost will be \$1.00 per person, with children age 11 or under free. The maximum charge will be \$4.00 per family.

ACTIVITIES: Bunny hunt (fox hunt), demonstrations of Packet radio, Packet paging, automatic position reporting system (APRS), and discussion of new license test questions related to the RF (Radio Frequency) safety. Other activities are being considered.

DETAILS: The picnic location will be under two ample shelters, so rain is not a worry. Family members and non-ham friends are welcome. Amateurs who are not affiliated with a club are welcome to come and meet the various club representatives and pick up handouts. Non club members please RSVP to Gene Buell. Please, no pets

DIRECTIONS: Red Sunset Park is located in Gresham, on Red Sunset Drive, South of Hogan Road (242nd), between Stark Street and Burnside Street. From I-84 take the Wood Village Exit (Exit 16A) south.

QUESTIONS: Contact Gene Buell, Chairman, KA7KBH, at 503 614-0563.



STS-83 SHUTTLE MISSION TO BE REFLOWN AS STS-94

From W5YI Newsletter

Columbia's STS-83 shuttle mission will fly again on July 1st to complete the mission cut short in April because of a fuel cell problem. The remaining space shuttle flights in 1997 have been adjusted to accommodate Columbia's mission, which will fly as STS-94.

The SAREX (Shuttle Amateur Radio Experiment) liftoff from Cape Canaveral is scheduled for 2:37PM EDT (1837 GMT/ 11:37AM PDT). The launch window closes at 5:07PM. STS-94 will place the shuttle into Earth orbit at an altitude of 160 statute miles, with a 28.45° inclination. Landing is scheduled for July 17 at 7:23AM EDT.

Three of the seven shuttle crew are licensed Amateur Radio Operators: Commander, Air Force Lt. Col. James Halsell is KC5RNI; Payload Commander, Janice Voss, KC5BTB; and Mission Specialist, Donald Thomas, KC5FVF. All are making their fourth shuttle flight. The primary payload is the first Microgravity Science Laboratory (MSL-1).

Eighteen schools are listed for contact, none in Oregon or Washington, but three in California. A few students from each school will ask questions which are answered by the ham astronauts over amateur radio frequencies.

The crew members will also make random contacts with earth-bound hams. They make these contacts during their breaks, before and after meal time, and during their presleep time. SAREX configuration C will be flown on STS-94, allowing the shuttle ham astronauts to operate in either the voice or data mode.

The Goddard Amateur Radio Club (Greenbelt, MD) re-transmits live, shuttle air-to-ground audio from their club station, WA3NAN, at 3.86, 7.185, 14.295, 21.395, and 28.65 MHz.

Send reports and QSLs to ARRL EAD, STS-94 QSL, 225 Main Street, Newington, CT 06111-1494. Include the following information in your QSL or report: STS-83; date; time in UTC; frequency and mode (FM, voice or packet). In addition, you must also include a SASE using a large, business sized envelope if you wish to receive a card.



AZDEN RADIOS

2-METER AND 6-METER MOBILES IN STOCK

Call: Jack - N7CXX in Wilsonville

Local Phone - Information (503) 682-7898
Orders only please - - 1-800-835-4895

AREA VE TESTING SCHEDULED

By K7OTV

Phantom Amateur Radio Club (PARG)
Second and fourth Sunday of each month
Contact John, KA0SSF, at 503-626-7399

Salem Amateur Radio Club
Third Saturday of each month
Contact Sandy, N7TQQ, at 1-800-920-9604

Clark County Amateur Radio Club
July 12th and September 27th
Contact 360-896-8909

Portland Adventist Radio Club
July 13th and October 12th
Contact Edith, KA7MIF, at 642-5803



BOY SCOUTS STUDYING MORE HAM RADIO

From ARRL Newsletter

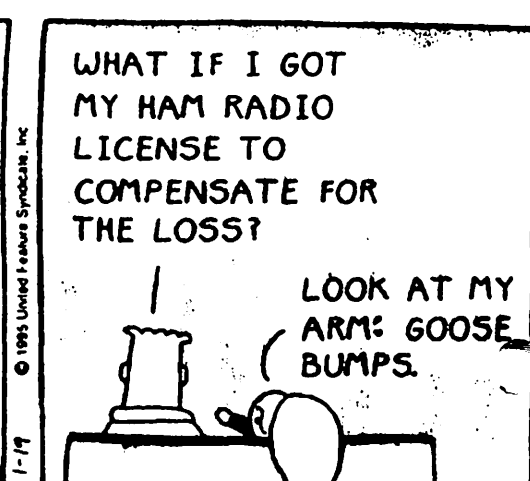
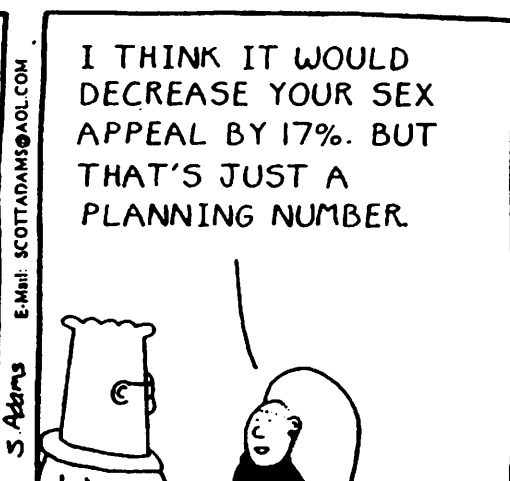
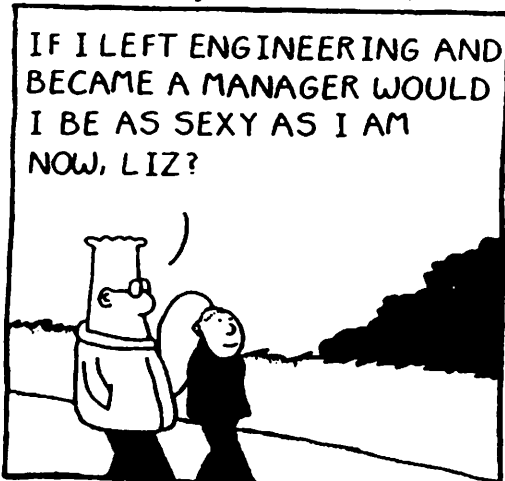
Radio Merit BadgeBook Depleted

This might be a good sign. Marie Dahl of the electronic publishing division of the national office of the Boy Scouts of America reports that BSA HQ has run out of the Radio Merit Badge book.

"Three thousand is considered to be a years supply, and we have depleted the supply before the year's end." She said. This is good news to hams who know the importance of capturing the interest of young people and getting them excited about our great hobby.



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JOSEPH REAVES

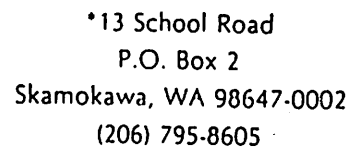
N6FRA

Amateur Radio Dealer

Estate Appraisals

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July 9-10-11-12 1998



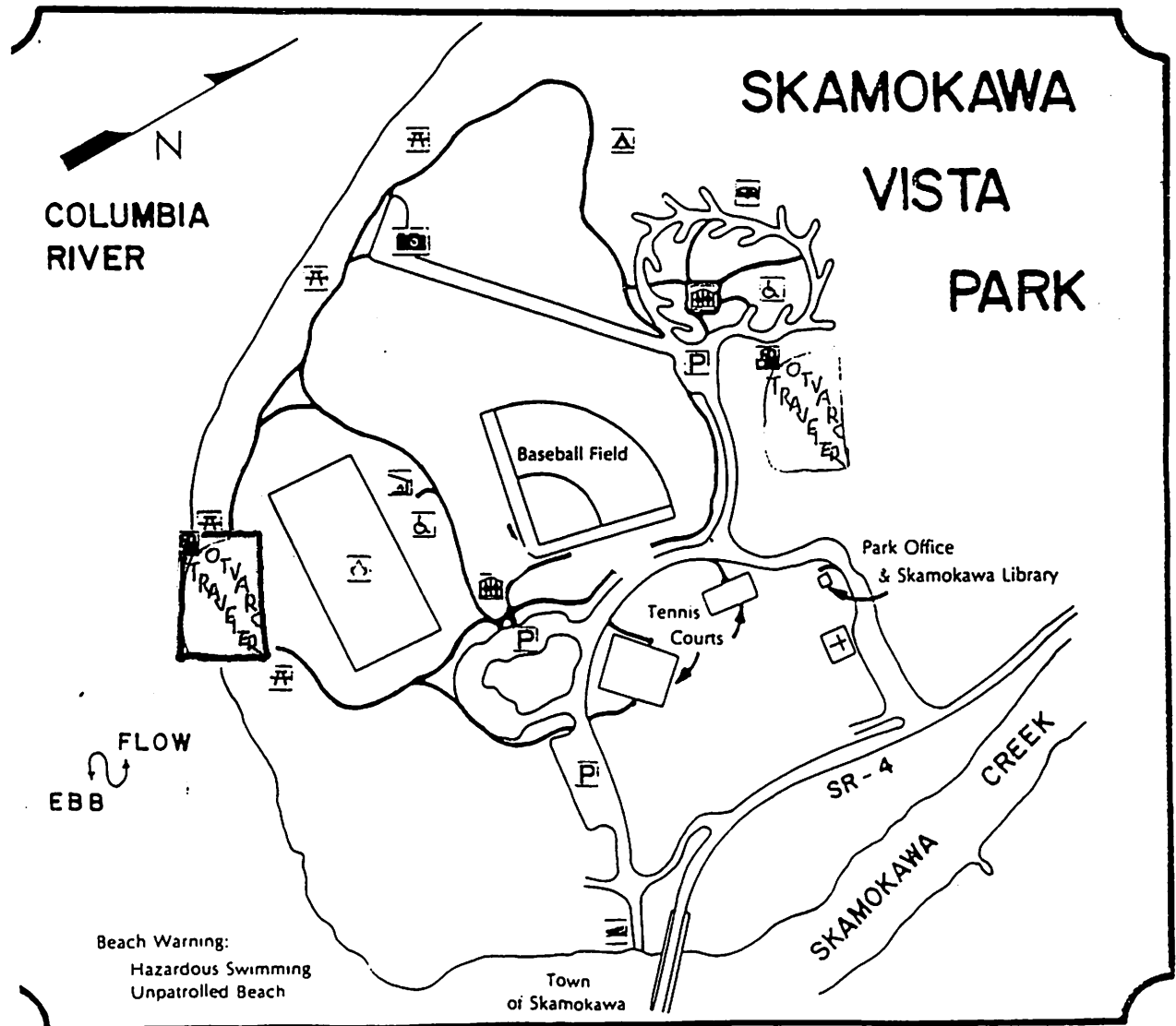
info call Roger or Marvel Noyes
292-3261

Facilities

Besides camping, visitors may enjoy the Skamokawa Library, tennis and other racquet sports, basketball, baseball and a large playfield, walking paths and viewpoint. Tot lots are located in the camping and picnic areas. A boat launching facility is connected with the park. Fishing and other water related activities are popular in the area.

Welcome to Skamokawa Vista Park

Skamokawa Vista Park is located on the shores of the Columbia River, 30 miles from the Pacific Ocean. Covering 25 acres, it is the former site of the old Skamokawa Grade School, torn down in 1973. The area was once the home of the Wahkia, a tribe of Indians. Lewis and Clark passed through here on their way to the Pacific Ocean in 1805. Skamokawa itself was the name of the Chief of the Wahkiakums, and means "Smoke-on-the-Water", due to morning fog. In 1976, Skamokawa was named a Historic District and placed on the State and National Registers of Historic Places.



OTVARC Club Contacts

OTVARC Executive Board

President	Betty Mickley	N7REX	642-1284
Vice President	Jim Schaeffer	KB7ADH	245-2518
Secretary	Dale LeBarron	W7FBP	638-7768
Treasurer	Hanford Van Ness	KE7BB	246-7975
Trustee	Jack Smithson	KA7HOJ	646-1873
Trustee	Will Sheffield	N7THL	642-7314
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	472-2716
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Loan	Stan Griffiths	W7NI	649-0837
Equipment Valuation	Randy Stinson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	J.D. Fort	KC7EHT	629-8050
Field Day	Carl Clawson	WS7L	629-5796
Healthe & Welfare	Mary Berg	N7TRW	640-5456
Historian	Al Berg	WB7SIC	640-5456
Internet Home Page	Marc Chamberlin	WA7PXW	357-1869
Member Badges	Carl Clawson	WS7L	629-5796
Newsletter Editor	Dale LeBarron	W7FBP	638-7768
Newsletter Layout	Dale LeBarron	W7FBP	638-7768
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	OPEN		
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	652-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stinson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	K7FW	640-0217
Satellites	Dick Emmel	W7KJZ	245-1928
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
"	Brad Beach	N7NVC	657-1781
"	Jim Schaeffer	KB7ADH	245-2518
"	Randy Stinson	KZ7T	297-1175
Station Trustee	Chuck Mickley	KI7CL	642-3713
Social	Geno Buell	KA7KBH	614-0563
Technical Specialist	Stan Griffiths	W7NI	649-0837
Tower Ordinances	Greg Milnes	W7AGQ	648-6990
Trailer	Dee Lynch	KA7NPN	646-4580
Training(code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VE Test Group	OPEN		
VHF/UHF	Arnold Jensen	N7YAG	543-3713

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service, through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time, from January through June and July through December. All ads must be paid for in advance. Rates are as follows:

Full page	8" X 10"	\$200 for six months
Half page	8" X 5"	\$120 for six months
Qtr page	4" X 5"	\$72 for six months
Bus.Card	2" X 3"	\$36 for six months

Meetings: We have two meetings per month. The board meeting is on the fourth Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Lodge, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.00.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for prorated dues.

How to join: Simply mail the Membership application and/or renewal form along with your dues to the address above.

Internet Home Page: WWW.EASYSTREET.COM/OTVARC

WORLDWIDE DISTRIBUTION



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ADDRESS CORRECTION REQUESTED

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